

Title (en)
VACUUM COMPENSATOR FOR INTERNAL COMBUSTION ENGINES

Title (de)
VAKUUM AUSGLEICHVORRICHTUNG FÜR BRENNKRAFTMASCHINE

Title (fr)
COMPENSATEUR DE VIDE POUR MOTEUR A EXPLOSION

Publication
EP 0877161 B1 20020612 (EN)

Application
EP 97932850 A 19970729

Priority
• ES 9700195 W 19970729
• ES 9602225 A 19961022

Abstract (en)
[origin: EP0877161A1] Vacuum compensator for internal combustion engines, of special application for its mounting to engines of motor vehicles, the vacuum compensator (1) being mounted on the air intake suction opening from the outside to the air filter case (2), the compensator having a general hollow cylindrical shape, one of its bases being open, and having in its other base a flexible body (8) integral with the side surface of the hollow cylindrical body, provided with a central circular variable diameter opening (9) and with a series of radial cuts (10) which define similar circular sectors; the nature of the flexible material body (8) and the diameter of the central circular opening (9) as well as a number of radial cuts (10) are function of the characteristics of the engine. <IMAGE>

IPC 1-7
F02M 35/10; **F02B 29/00**

IPC 8 full level
F02D 9/18 (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP ES)
F02D 9/18 (2013.01 - EP ES); **F02M 35/10013** (2013.01 - EP); **F02M 35/10236** (2013.01 - EP); **F02M 35/10301** (2013.01 - EP);
F02M 35/10386 (2013.01 - EP)

Cited by
FR3072132A1; US11193459B2; WO2019073142A1

Designated contracting state (EPC)
AT BE CH DE DK FR GB IT LI LU MC NL SE

DOCDB simple family (publication)
EP 0877161 A1 19981111; **EP 0877161 B1 20020612**; AT E219211 T1 20020615; AU 3624397 A 19980515; DE 69713275 D1 20020718;
ES 2136006 A1 19991101; ES 2136006 B1 20000516; ES 2160071 A1 20011016; ES 2160071 B1 20020501; ES 2222055 A1 20050116;
ES 2222055 B1 20060316; WO 9817907 A1 19980430

DOCDB simple family (application)
EP 97932850 A 19970729; AT 97932850 T 19970729; AU 3624397 A 19970729; DE 69713275 T 19970729; ES 200101973 A 20010828;
ES 9602225 A 19961022; ES 9700195 W 19970729; ES 9901986 A 19990903